SFUND RECORDS CTR 88172053

SFUND RECORDS CTR 2807-91882

CITYO

Application for Industrial Wastes Discharge Permit

Date	N	Fairchild	Semicono	luctor	, A Division	of Faire	015-7-	79
A.	Name of Organization Came Address Address of Point of Dis		ri muenic (orpor	ation, 464 Ei Mt. View, Bi	115 57	Mt. View, (alif. 940
•	Individual Responsible for industrial waste		ernard Yu	rash			(41 elephone <u>962</u>	5) -2346
	Attach Map Showing P	-				nt Facility.		
B.	Flow Rate: Average	210,000	gals/day	Max.	210,000 gals/day	Peak	Hourly 146	GPM
C.	Submit separate statem	ent:						
	1. Detailing type of inc	justry and natu	re of product					
	2. Listing chemicals use	ed and approxi	nate concent	rations				
	3. Describing waste tre	atment facilitie	s					5.5
	4. Giving characteristic	s of exceptiona	l industrial w	rastes .				
	5. Concerning radioacti			• •				
	6. Naming organic solve	ents discharged	and concent	ration a	point of discharge			
D.	Indicate the point of di	scharge concen	tration of the	followi	ng characteristics ar	nd mass emiss	ion rates where a	policable.
	giochemical oxygen dei	mand (8.0.D.)		_ mg/1	Grease and o		^ ^	na/1
	Chemical oxygen demai	nd (C.O.D.)	100	_ mg/1	Hydrogen Io	-	5.5 to 10	0.0
	Total Solids, Average		500_	_ mg/1	Fluoride	1.	5 n	ng/1
	Suspended Solids, Avera	ege	200	_ mg/1.	Chlorine dem	land		ng/1
	Temperature		70	_ °F			•	
•		Max. Conc.	Allowable			Max. Conc.	Allowable	Mass
	•	Allowable	Emission			Allowable	Emission	Rate
	A	mg/1 0.1	kg/dar			mg/1	kg/day	•
	Arsenic Barium	5.0	0.01	<u>L</u>	Formaldehyde	5.0	0.5	_
	Beryllium .	1.0	$\frac{0.5}{0.1}$		Lead	0.5	0.05	<u> </u>
	Boron	1.0	$\frac{0.1}{0.1}$	_	Manganese	1.0	0.1	-
	Chlorine	50.0	5.0		Mercury	0.05	0.00	i .
	Cadmium	0.1	0.01		Nickel	$\frac{1.0}{50.0}$	0.1	_
	Chromium Hexavalent	1.0	0.1	:	Chloroform	50.0	5.0	_
	Chromium Total	2.0	0.2		Phenois Selenium	$\frac{1.0}{2.0}$	0.1.	-
	Cobalt	1.0	0.1		Silver	5.0	0.2_	-
	Copper	1.0	0.1	-	Zinc	5.0	0-5_	-
	Cresols	2.0	0.2	-	ZIFFG		0.5	-
	Cyanides	1.0_	0.1	_				
	70.05.00							
	TO BE COMPLETED BY		•					
ermi	t to Discharge Industrial	Wastes in Acco	rdance with.	This Ap	olication Approved	Subject	to Attached	General
Anen	Shelley, Director of Publi	ic Works	1.		•	and Spec	ific Condit	1008
Signat	ture (\(\lambda \lambda \)	le_ Ili	illen		Daya		13, 1976	
ermi	t to Discharge Exception	al Industrial W						
ist D	etails:	ai ingustriai vya	iste Approved	d	and the second of the second o		e e e e e e e e e e e e e e e e e e e	
					Samuel Same			
Allen	Shelley, Director of Publ	ic Works					• • •	
ignat		· ·			_			
-					Date			
ISTR	IBUTION: Original to Indus Division,	'rial Waste File, C	opy to Dischar	ger, Cop	v to Water Quality Cor	itral Plant, Cos	y to Palo Alto, Coi	y to Sewer
W-23					_			
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CITY OF MOUNTAIN VIEW

Industrial Waste Discharge Permit

DATE:	April 13,	1976	NO. 015-7-79
NAME OF	ORGANIZATION:	Fairchi	1d Semiconductor
ADDRESS:	464 Ellis	Street	

GENERAL CONDITIONS

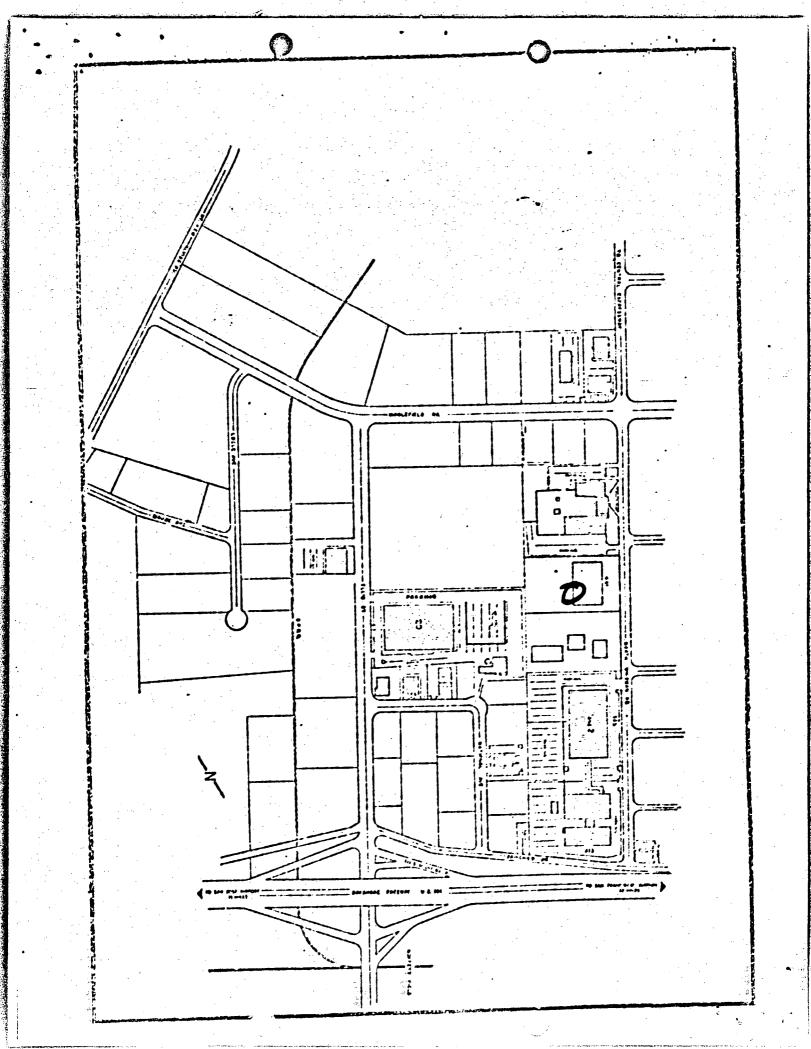
- This permit is issued under the ordinances and regulations of the City of Mountain View currently in effect, but all discharges hereunder shall comply with all ordinances and regulations of the City and all other applicable local, state, and federal regulations, whether now in effect or hereafter adopted or amended.
- Any violation of the terms of this Permit or the ordinances or regulations of the City shall be grounds for revocation.
- 3. If any proposed revisions in plant operations are expected to cause significant changes in waste water quality or quantity (25 percent or more, or 25,000 gallons per day) from that given in approved Permit information, an application for an amended permit must be submitted for approval detailing the nature of the changes.
- 4. In accordance with Section 35.32.8 of the City Code, accidental discharges of industrial wastes shall be reported immediately to the Public Works Department, telephone number 967-7211, Ext. 270, during normal office hours, or to the Fire Department, telephone number 968-4415, on holidays or after normal office hours AND to the Palo Alto Regional Water Quality Control Plant, telephone number 329-2598 so that appropriate countermeasures may be taken.
- This Permit is not transferable without prior written consent of the Director of Public Works. In general, a change of ownership will require a new permit.
- 6. The issuance of this permit does not constitute a warranty that the design capacity of the sewage collection and treatment system is sufficient to accommodate peak sewage flows from all dischargers who may now or hereafter be connected to the system. Pursuant to Sec. 35.32.1(d) the City reserves the right to impose restrictions on sewage discharges where necessary in the judgment of the City to assure the proper functioning in the sewerage system.

SPECIFIC CONDITIONS

- 1. This permit is for a period ending on July 1, 1977 but shall be automatically renewed for up to four (4) additional successive one-year periods unless the City shall give written notice of nonrenewal at least thirty (30) days prior to the annual renewal date.
- This permit applies to industrial waste discharges at the following location(s) only:

	Building	13	- 441	Whisman	Road		
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^{3.} Your attention is called to the fact that flow rates shown on the permit application exceed per-acre design flows of the sewers serving the above locations. Restrictions or additional charges may be imposed in accordance with Sec. 35.32.1(d) of the City Code should peak sewage flows from the total upstream acreage approach the capacity of these sewers.



APPLICATION FOR INDUSTRIAL WASTES DISCHARGE PERMIT, ITEM C.

1. Type of Industry and Nature of Products

Pairchild Semiconductor processes silicon metal into electronic semiconductor devices.

2. Chemicals used in semiconductor device processing are:

Gases	Liquids	Liquids
Nitrogen	Sulfuric acid	Methanol
Hydrogen	Nitric acid	Isopropanol
Oxygen	Hydrofluoric acid	Methylene chloride
Argon	Hydrochloric acid	Trichloroethane
Hydrogen chloride	Acetic acid	Detergents
Chlorine	Phosphoric acid	Aluminum sulfate
Compressed air	Ammonium fluoride	Sodium carbonate
Ammonia	Ammonium hydroxide	Sodium hydroxide
	Acetone	Freon
		Glycerin
		Xylene

3. Waste treatment facilities

Neutralization of acids is provided by injection of ammonia into mixing tanks with continuous monitoring and control. Pluoride solutions are captured and disposed of separately, not into the city sewer.

In Building No. 18 a cyanide destruction system operates to destroy and convert cyanides to nitrogen and carbon dioxide. The final effluent is neutralized to a pH between 6 and 9.

Characteristics of exceptional industrial wastes. None.

- 5. No radioactive wastes are discharged.
- 6. Organic solvents are captured for storage and recycling.